

2001 Chevrolet S10 Pickup

2001-02 SUSPENSION Rear - Blazer, Bravada, Envoy, Jimmy, S10 Pickup, Sonoma & Trailblazer

2001-02 SUSPENSION

Rear - Blazer, Bravada, Envoy, Jimmy, S10 Pickup, Sonoma & Trailblazer

DESCRIPTION & OPERATION

These vehicles use a leaf spring and solid rear axle suspension system. The rear axle assembly is attached to a multi-leaf springs by U-bolts. The front ends of the springs are attached to the frame at the front hangers with rubber bushings. The rear ends of the springs are attached to the frame with shackles that use rubber bushings. Shackles allow the springs to change position while the vehicle is in motion.

Two direct double acting shock absorbers provide ride control. The shock absorbers are angle mounted between the frame. The shock absorbers are attached with brackets. The brackets are attached to the anchor plate.

The rear spring steel stabilizing shaft helps minimize body roll and sway during cornering. The rear stabilizer bar is connected to the rear axle and the frame with the following components:

- Rubber Insulators
- Clamps
- Link Assemblies

REMOVAL & INSTALLATION

LEAF SPRING

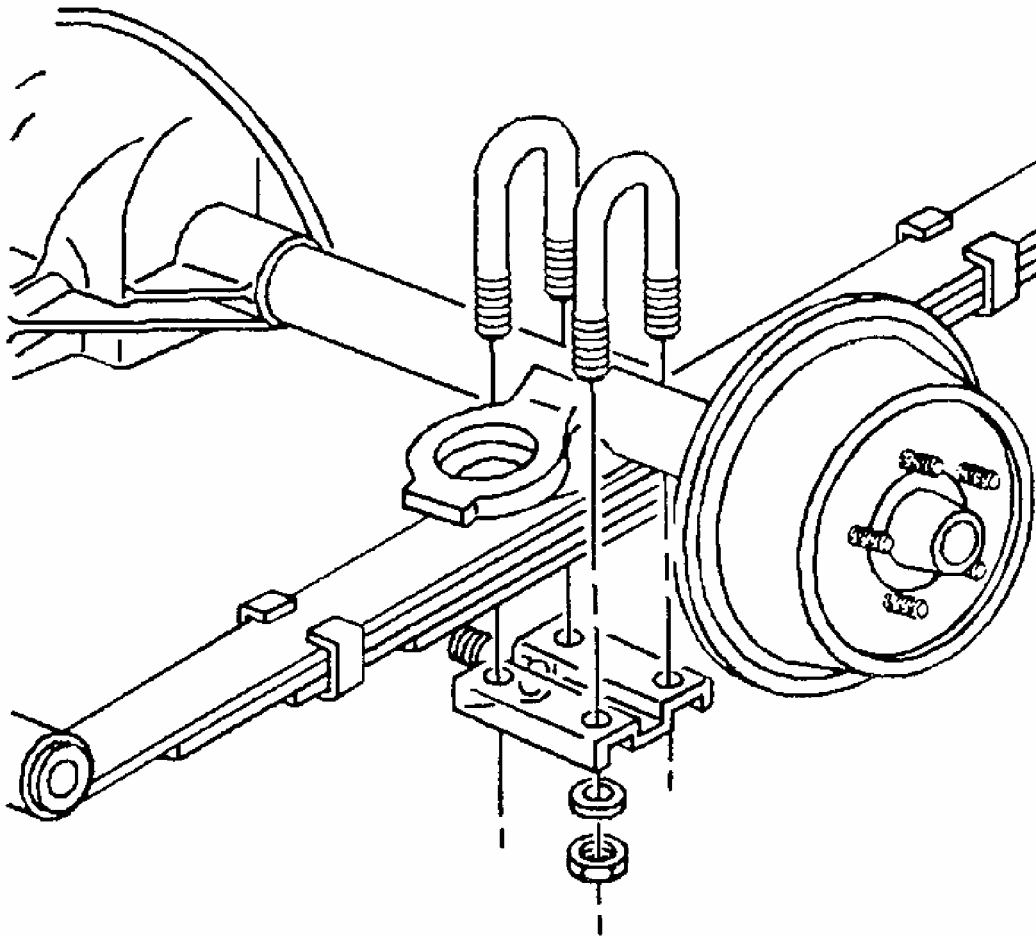
NOTE: **ZR2 is Regular Production Option (RPO) code for 4WD sport, high performance chassis package.**

Removal

1. Raise and support the vehicle.
2. Remove the fuel tank (except Crew Cab and ZR2 models).
3. Remove the EVAP canister on 2-Door utility models (except the ZR2).
4. Remove the spare tire, if necessary.
5. Remove the muffler, if necessary.
6. Support the rear axle in order to relieve the tension on the leaf springs.
7. Remove the leaf spring U-bolt retaining nuts. Remove the leaf spring U-bolts. See **Fig. 1**.

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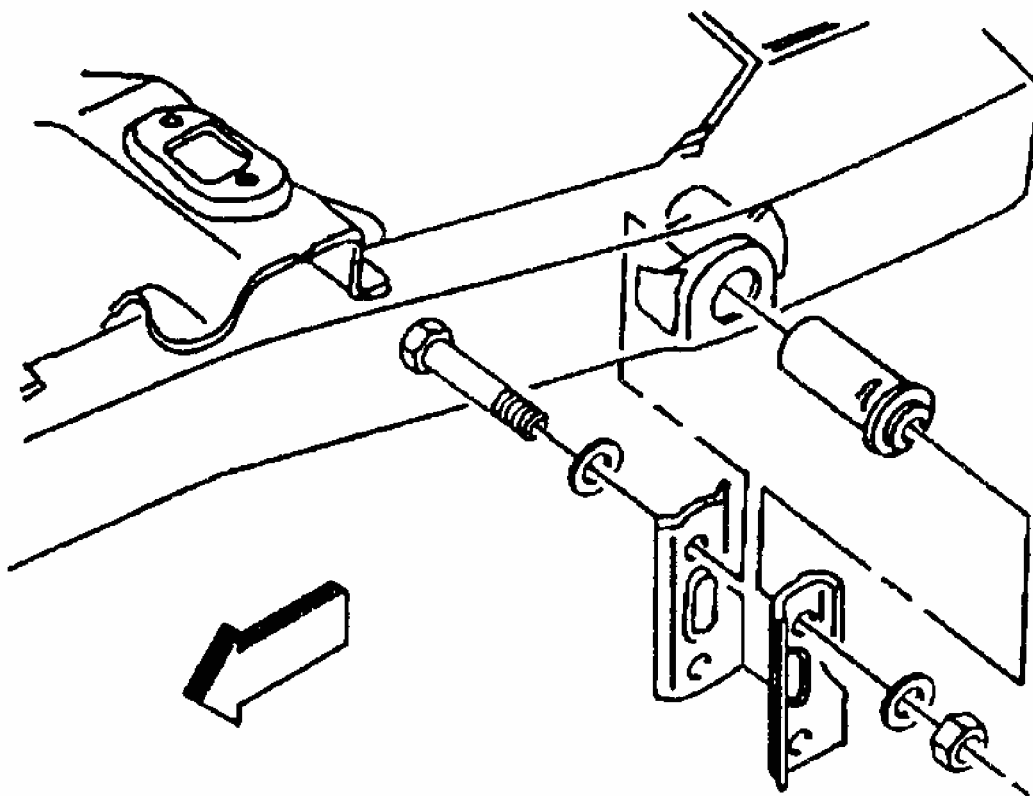
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Fig. 1: Removing U-bolts From Rear Axle
Courtesy of GENERAL MOTORS CORP.

8. Rotate anchor plate out of the way.
9. Remove the spring shackle to leaf spring mounting nut and bolt. See **Fig. 2** .
10. Remove the leaf spring to front bracket mounting nut and bolt. See **Fig. 3** .
11. Remove the leaf spring from the vehicle.

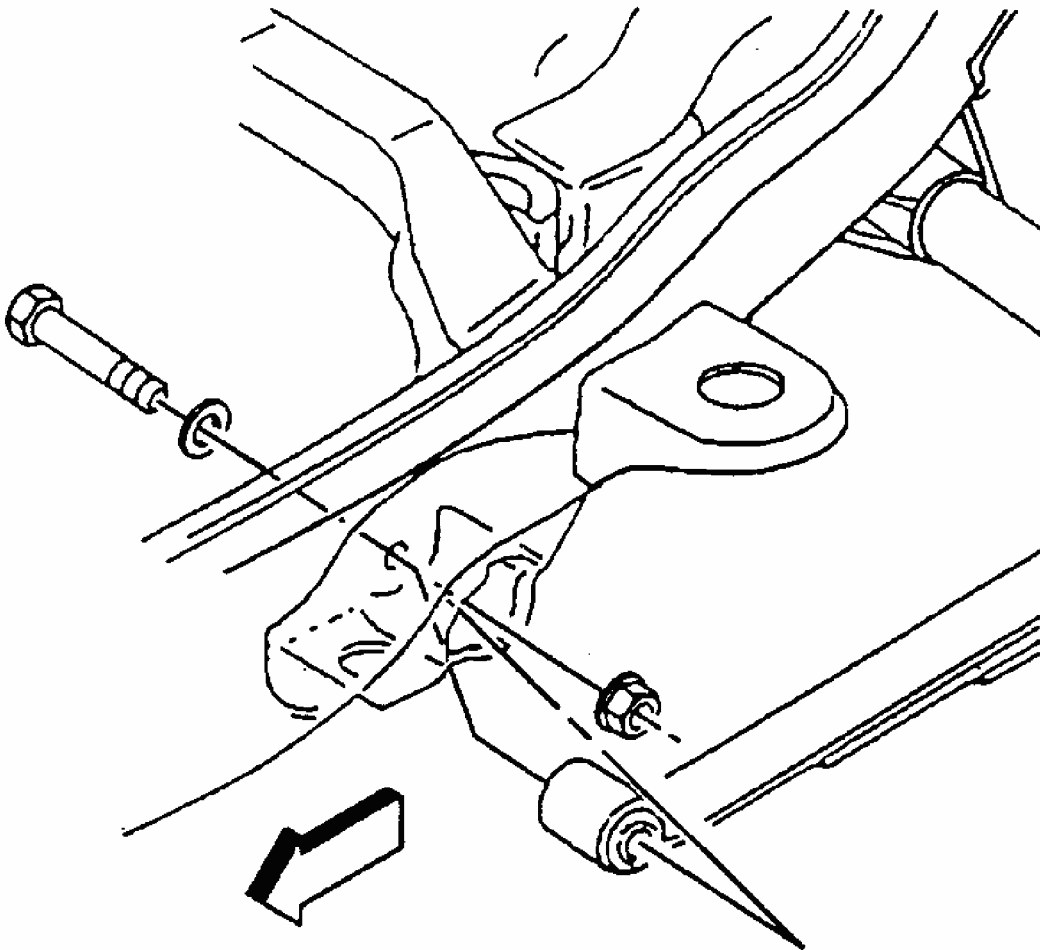
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Fig. 2: Removing Shackle To Frame Bolt, Washer & Nut
Courtesy of GENERAL MOTORS CORP.



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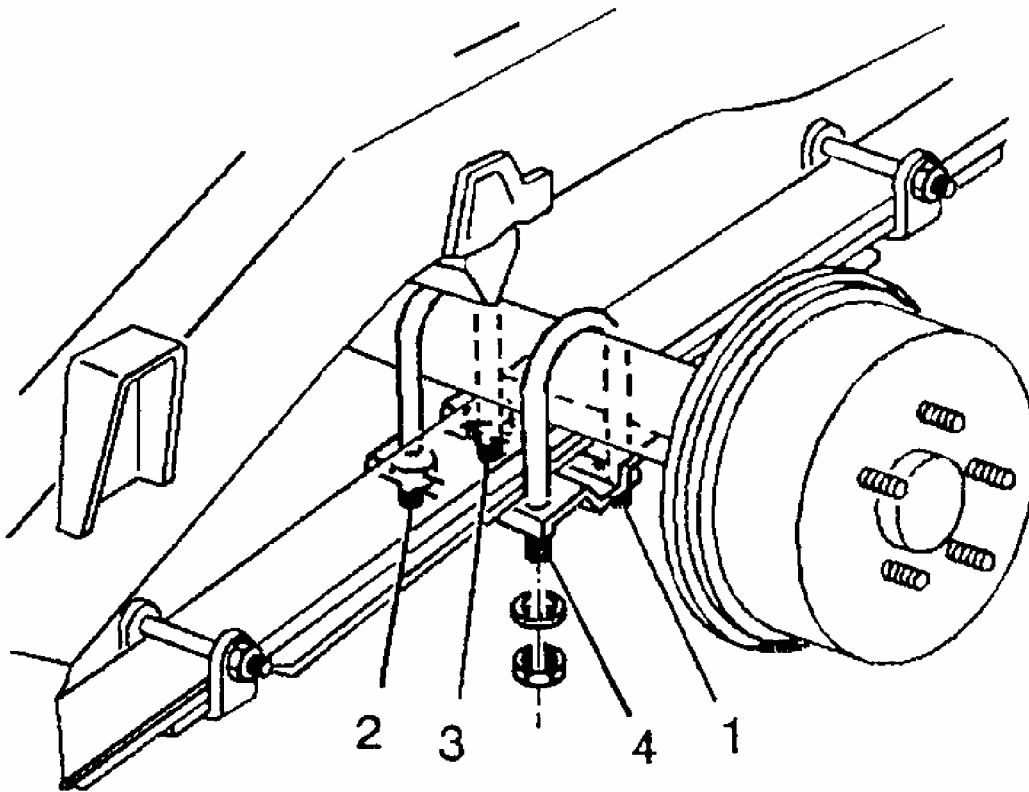
Fig. 3: Removing Front Spring Hanger Assembly
Courtesy of GENERAL MOTORS CORP.

Installation

1. Install the leaf spring to the vehicle.
2. Install the leaf spring to the front bracket mounting bolt and nut. DO NOT tighten the nut. See **Fig. 3** .
3. Install the leaf spring to shackle mounting bolt and nut. DO NOT tighten the nut. See **Fig. 2** .
4. Rotate the anchor plate to the proper position.
5. Install the leaf spring U-bolts. See **Fig. 4** .

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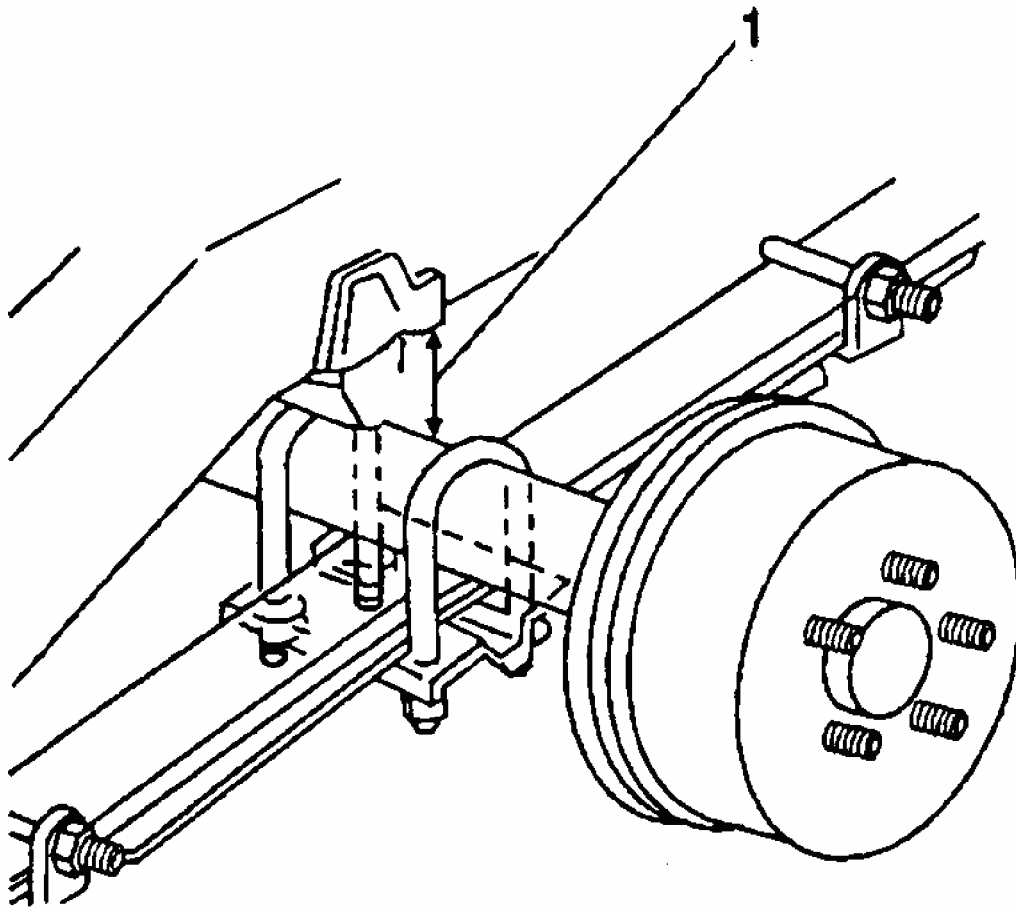
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Fig. 4: Torquing U-bolt & Anchor Plate In Sequence
Courtesy of GENERAL MOTORS CORP.

6. Install the leaf spring U-bolt retaining nuts; Then tighten the leaf spring U-bolt retaining nuts. See **TORQUE SPECIFICATIONS** .
7. Raise the axle support so that there is a distance of 170 mm plus or minus 6 mm (6.7 in. plus 0.24 in.) between the axle tube and the metal surface of the bumper bracket (1). See **Fig. 5** .



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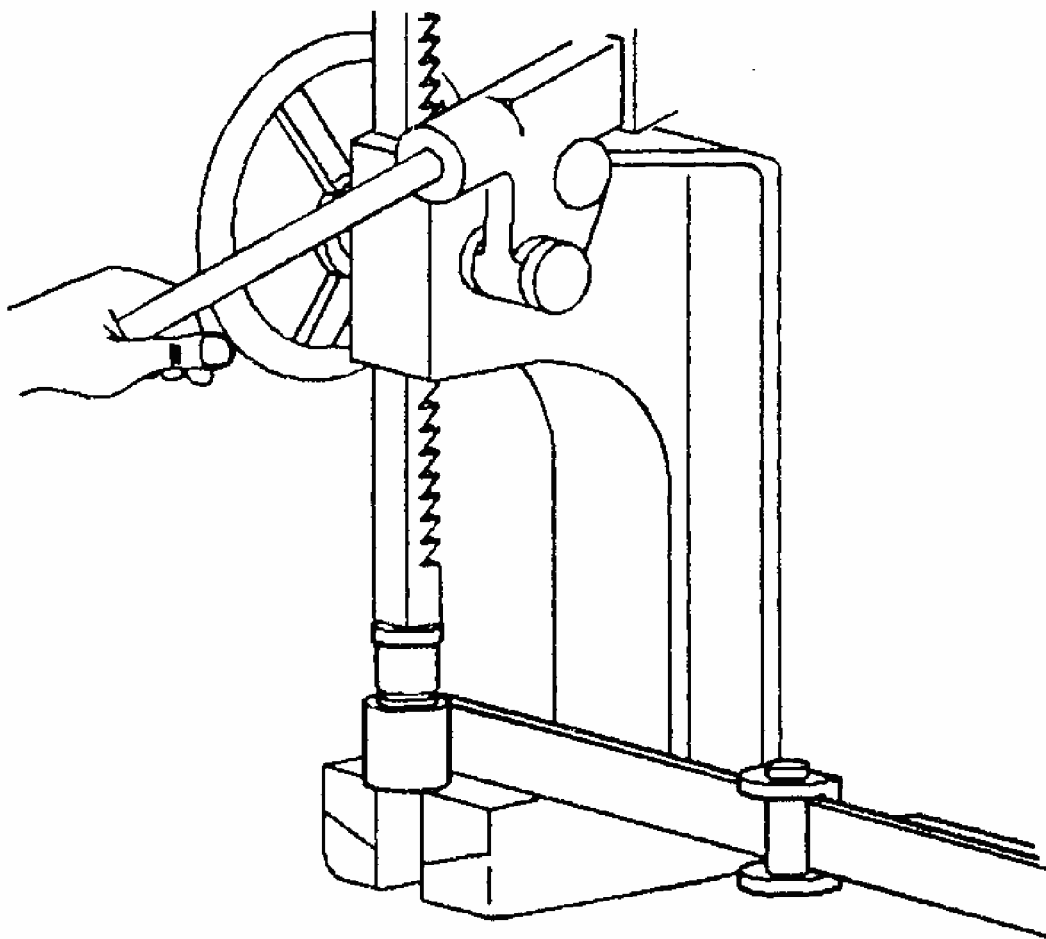
Fig. 5: Installing Leaf Spring To Front Axle Nuts
Courtesy of GENERAL MOTORS CORP.

8. Tighten the leaf spring to front bracket mounting nut.
9. Tighten the leaf spring to spring shackle mounting nut.
10. Remove axle support.
11. Install muffler, if necessary.
12. Install the spare tire, if necessary.
13. Install the EVAP canister on 2-Door utility models (except the ZR2).
14. Install the fuel tank (except Crew Cab and ZR2 models).
15. Lower the vehicle.

SPRING BUSHING

Removal

1. Remove the spring assembly from the vehicle
2. Remove the bushing from the spring assembly. Press the spring bushing from the spring in an arbor press. See **Fig. 6** .
3. Clean the spring eye of any remaining parts of the bushing.
4. Remove any burrs from the spring eye that could cause the new bushing to bind when the bushing is installed.



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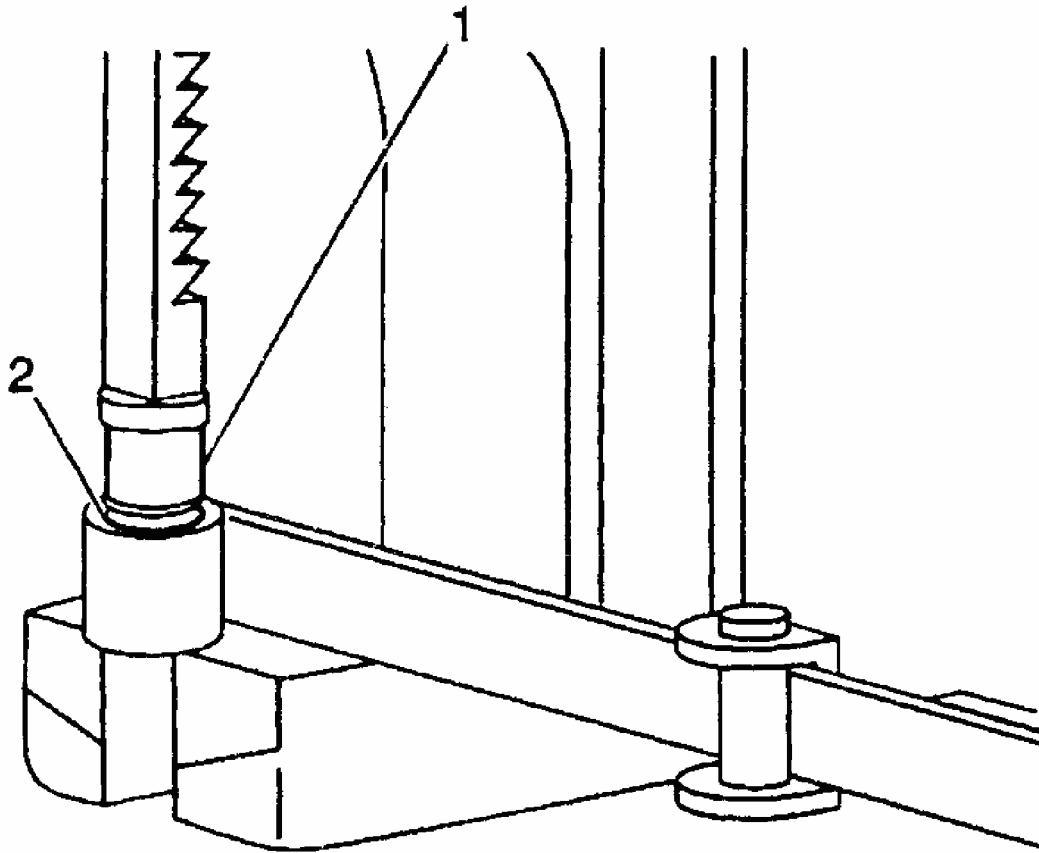
Fig. 6: Removing Bushing From Spring Eye
Courtesy of GENERAL MOTORS CORP.

Installation

1. Apply rubber lubricant to the bushing (1). Apply lubricant to the spring eye (2). See **Fig. 7** .
2. Install the bushing to the spring assembly. press the bushing into the spring using an

arbor press. See **Fig. 6** .

3. Install the leaf spring assembly to the vehicle. See **LEAF SPRING**.



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Fig. 7: Installing Bushing Into Spring Eye
Courtesy of GENERAL MOTORS CORP.

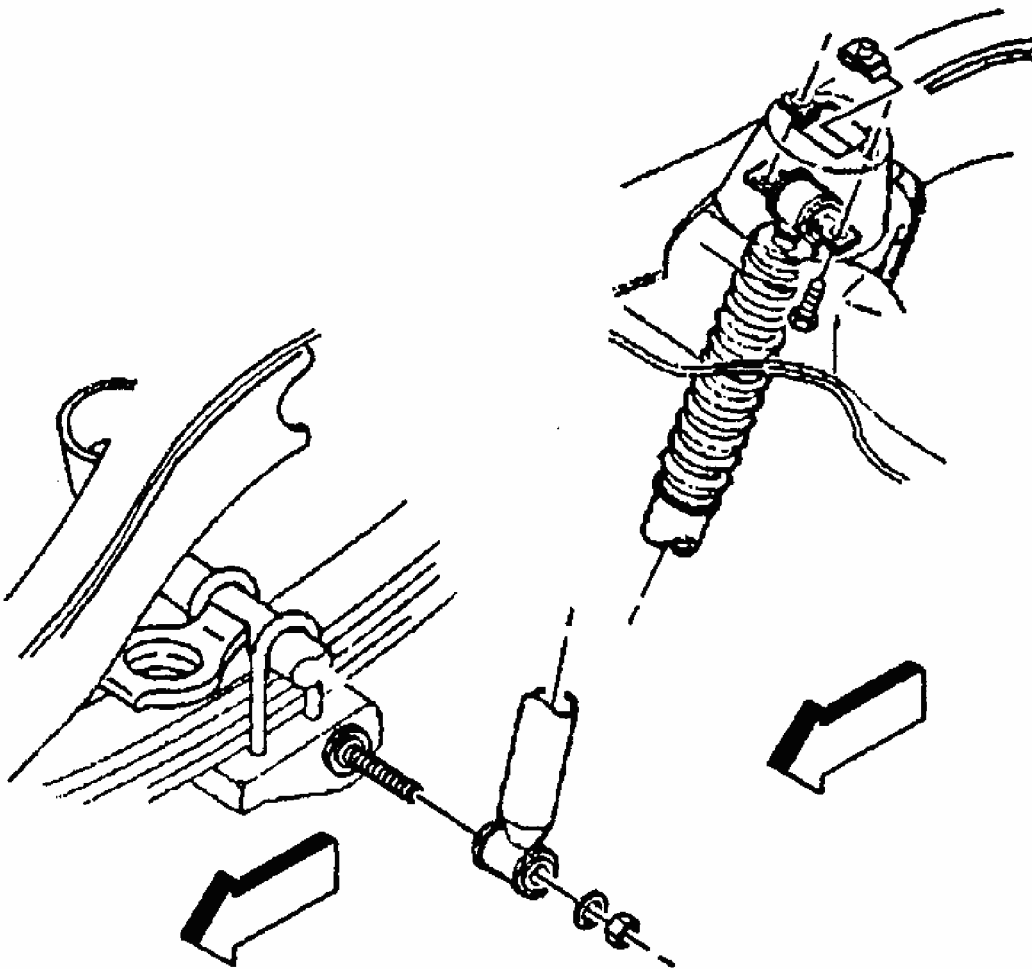
SHOCK ABSORBER

Removal

1. Raise and support the vehicle.
2. Support the rear axle.
3. Disconnect the automatic level control air lines from shock absorber, if equipped.
4. Remove the shock absorber upper mounting bolts. See **Fig. 8** .
5. Remove the shock absorber lower mounting nut.
6. Remove the shock absorber lower mounting bolt (4-Door Utilities Only).
7. Remove the shock the shock absorber from the vehicle.

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Fig. 8: Removing Rear Shock Absorber
Courtesy of GENERAL MOTORS CORP.

Installation

1. Install the shock absorber to the vehicle.
2. Install the shock absorber lower mounting bolt (4-Door utility only). See **Fig. 8** .
3. Install the shock absorber upper mounting bolt and tighten. See **TORQUE SPECIFICATIONS** .
4. Install the shock absorber lower mounting nut, then tighten.
5. Connect the automatic level control air line to shock absorber, if equipped.
6. Remove the rear axle support.
7. Lower the vehicle.

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SHOCK ABSORBER DISPOSAL

CAUTION: Gas charged shock absorbers contain high pressure gas. Do not remove the snap ring from inside the top of the tube. If the snap ring is removed, the contents of the shock absorber will come out with extreme force which may result in personal injury. To prevent personal injury, wear safety glasses when centerpunching and drilling the shock absorber. Use care not to puncture the shock absorber tube with centerpunch.

1. Make an indentation 10 mm (0.4 inches) from the bottom (4) of the tube (3) using a centerpunch. See **Fig. 9** .

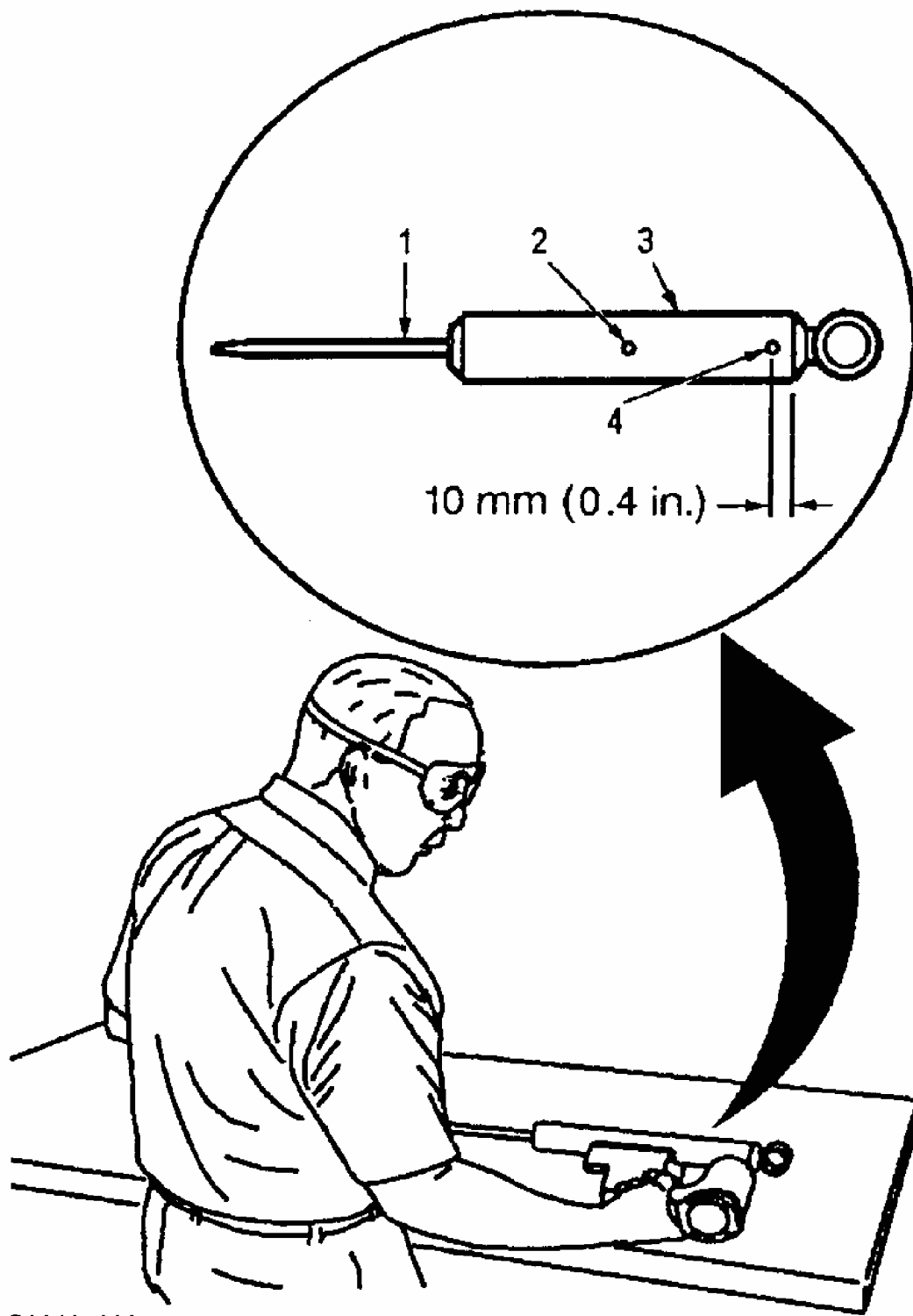


Fig. 9: Disposing Of Shock Absorber
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2. Clamp the shock absorber in a vise horizontally with the shock absorber rod (1) completely extended.
3. Drill a hole in the shock absorber at the centerpunch (4) using a 3/16 inch drill bit. Gas or a gas/oil mixture exhaust when the bit penetrates the shock absorber. Use shop towels in order to contain the escaping oil.
4. Make an indentation in the middle (2) of the tube (3) with a centerpunch.
5. Drill a second hole in the shock absorber at the centerpunch (2) using a 5 mm (3/16 inch) drill bit. Oil will exhaust when drill bit penetrates the shock absorber. Use shop towels in order to contain escaping oil.
6. Remove the shock absorber from the vise. Hold the shock absorber over a drain pan horizontally with the holes down. Move the rod (1) in and out of the tube (3) to completely drain the oil from the shock absorber.

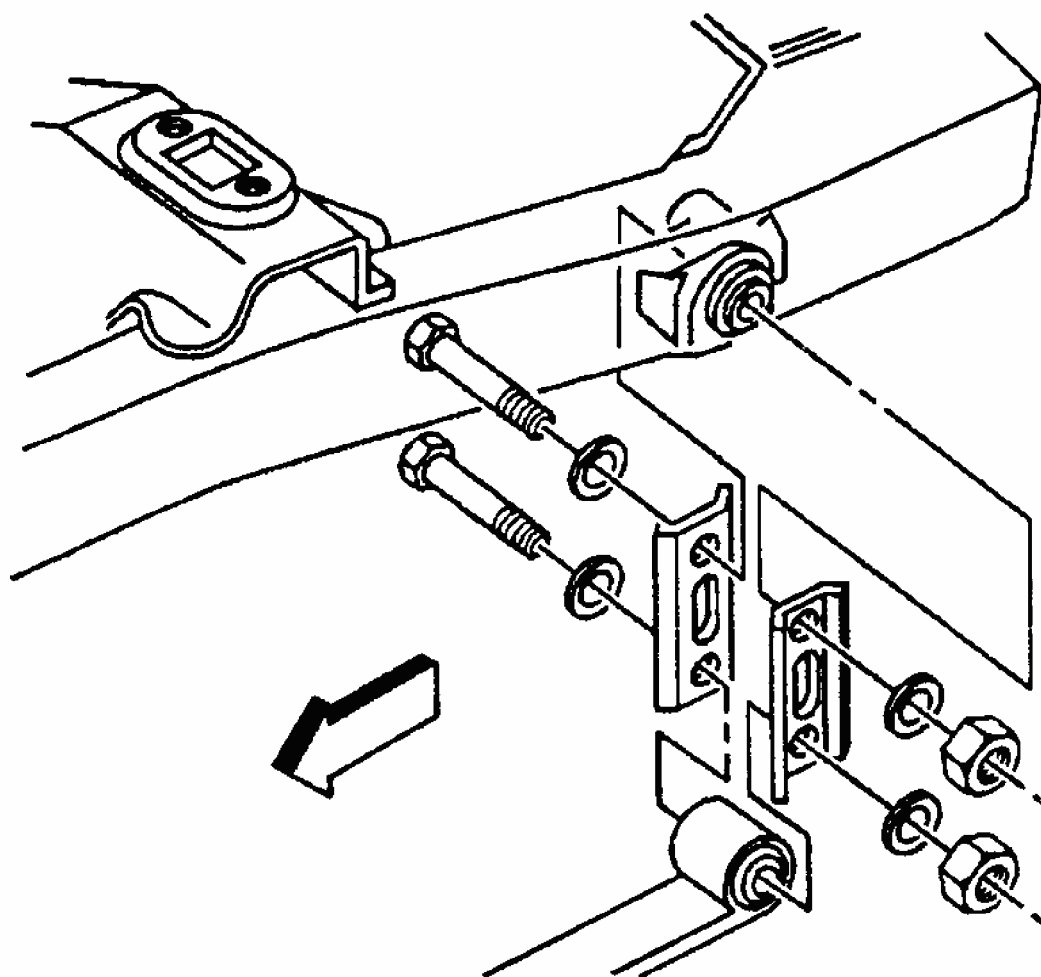
SPRING SHACKLE

Removal

1. Raise and support the vehicle.
2. Remove the fuel tank 2-Door utility models.
3. Remove the EVAP canister on 2-Door utility models.
4. Remove spare tire, if necessary.
5. Disconnect rear exhaust hangers and lower exhaust system, if necessary.
6. Support the rear axle.
7. Remove the frame to spring shackle mounting nut and bolt.
8. Remove the leaf spring to spring shackle mounting nut and bolt. See **Fig. 10** .
9. Remove the spring shackle from the vehicle.

Installation

1. Install spring shackle to the vehicle.
2. Install the spring shackle to leaf spring mounting bolt and nut. DO NOT tighten the nut. See **Fig. 10** .



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Fig. 10: Installing Rear Spring Shackle Bolt
Courtesy of GENERAL MOTORS CORP.

3. Install the frame to the spring shackle mounting bolt and nut. DO NOT tighten the nut.
4. Raise the axle support so that there is a distance of 170 mm plus or minus 6 mm (6.7 in. plus or minus 0.24 in.) between the axle tube and the metal surface of the bumper bracket (1). See **Fig. 5**.
5. Tighten the spring shackle mounting nuts. See **TORQUE SPECIFICATIONS**.
6. Remove rear axle support.
7. Raise exhaust system and connect rear exhaust hangers, if necessary.
8. Install spare tire, if necessary.
9. Install the EVAP canister on 2-Door utility models.
10. Install the fuel tank on 2-Door utility models.

11. Lower the vehicle.

SHACKLE BUSHING

Removal

1. Raise and support the vehicle
2. Remove the fuel tank on 2-Door utility models.
3. Remove the EVAP canister on 2-Door utility models.
4. Remove spare tire on Pickups and 4-Door utility models.
5. Disconnect rear exhaust hangers and lower exhaust system, if necessary.
6. Support the rear axle.
7. Remove the spring shackle to frame mounting nut and bolt. See **Fig. 11** .

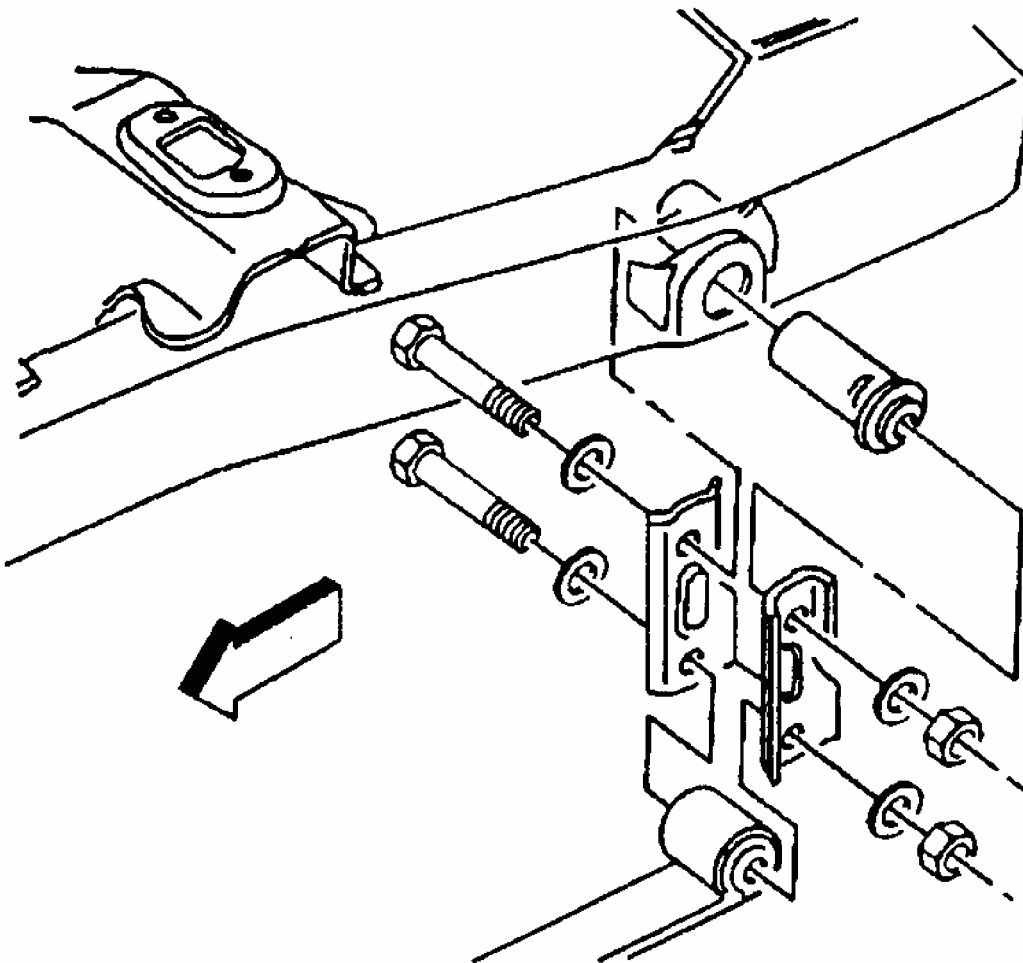
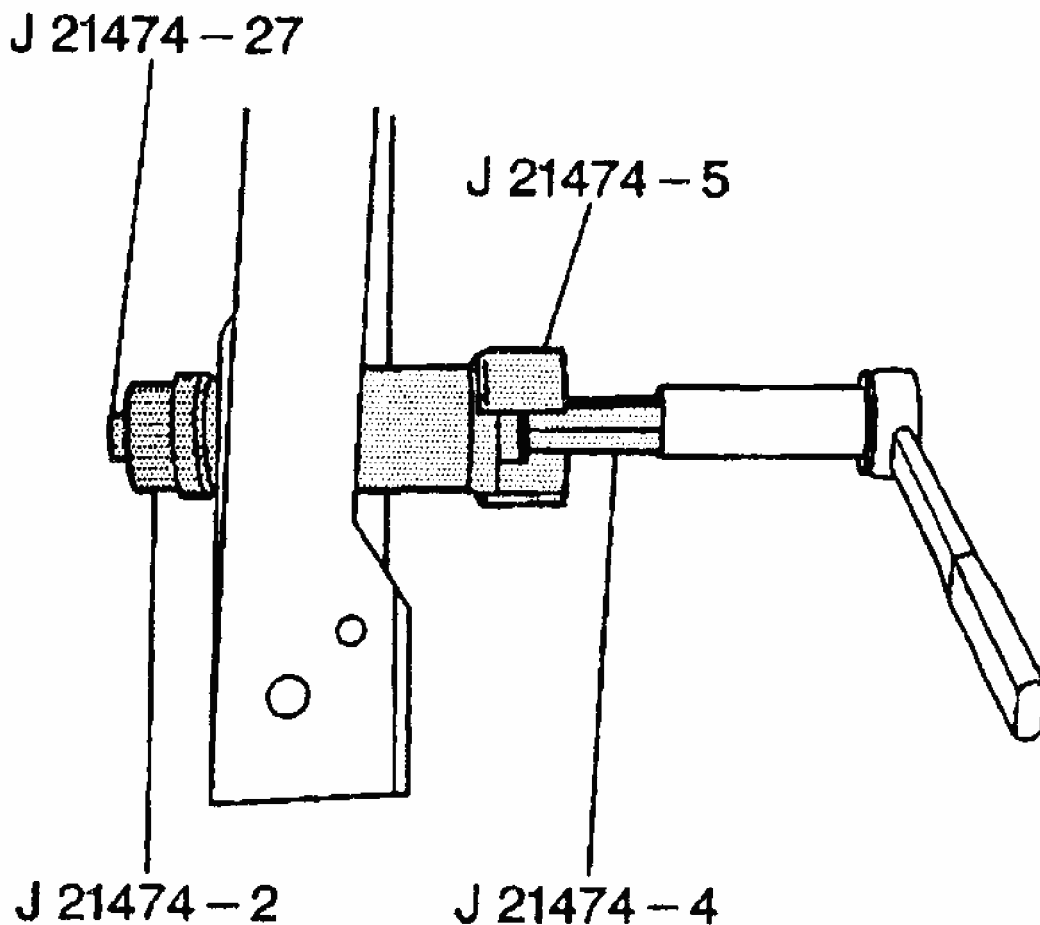


Fig. 11: Locating Spring Shackle Components
Courtesy of GENERAL MOTORS CORP.

8. Loosen the lower spring shackle mounting bolt at the leaf spring. Leave the bolt attached.
9. Lower the axle until there is enough clearance to remove the spring shackle bushing.
10. Use a blunt punch to straighten out the bushing flange that comes through the inner frame.
11. Remove the spring shackle bushing using Control Arm Bushing Set (J 21474-01). See **Fig. 12** . See **SPECIAL TOOLS** .
12. Repeat steps 7) through 11) for other spring shackle bushing.



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Fig. 12: Rear Spring Shackle Bushing Special Tool Set Up
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Installation

NOTE: **Replace both of the spring shackle bushings while the fuel tank is removed from the vehicle.**

1. Install the new spring shackle bushing using Control Arm Bushing Set (J 21474-01). See **Fig. 12** . See **SPECIAL TOOLS** .
2. Pull the spring shackle bushing into the frame rail until the flanged portion of the spring shackle bushing is flush with the rail.
3. Stake the spring shackle bushing inner flange.
4. Raise the axle into the position.
5. Install the spring shackle to frame mounting bolt and nut. DO NOT tighten the nut. See **Fig. 11** .
6. Repeat steps 1-6 for the other spring shackle bushing.
7. Raise the axle support so that there is a distance of 170 mm plus or minus 6 mm (6.7 in. plus or minus 0.24 in.) between the axle tube and the metal surface of the bumper bracket (1). See **Fig. 5** .
8. Tighten the spring shackle mounting nuts; Tighten the rear spring shackle nuts. See **TORQUE SPECIFICATIONS** .
9. Remove the rear axle support.
10. Raise the exhaust system and connect the rear exhaust hangers, if necessary.
11. Install the spare tire, if necessary.
12. Install the EVAP canister on 2-Door utility models.
13. install the fuel tank on 2-door utility models.
14. Lower the vehicle.

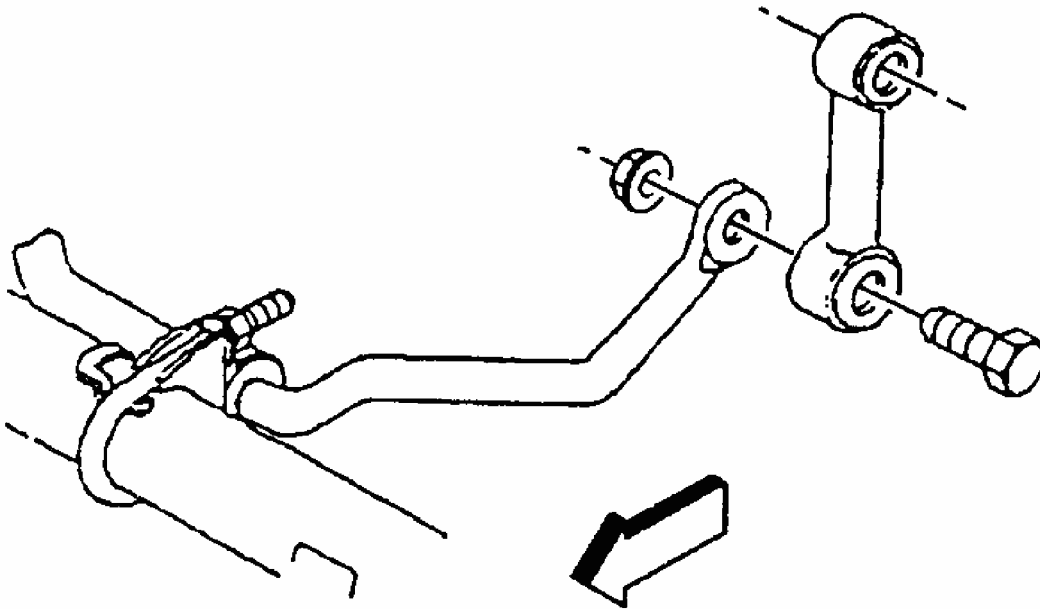
STABILIZER BAR (2WD)

Removal

1. Raise and suitably support the vehicle.
2. Remove the lower nuts, the washers, and the bolts from the stabilizer links. See **Fig. 13** .
3. Remove the nuts from the U-bolts. See **Fig. 14** .
4. Remove the U-bolts, the clamps and the insulators.
5. Remove the stabilizer bar.

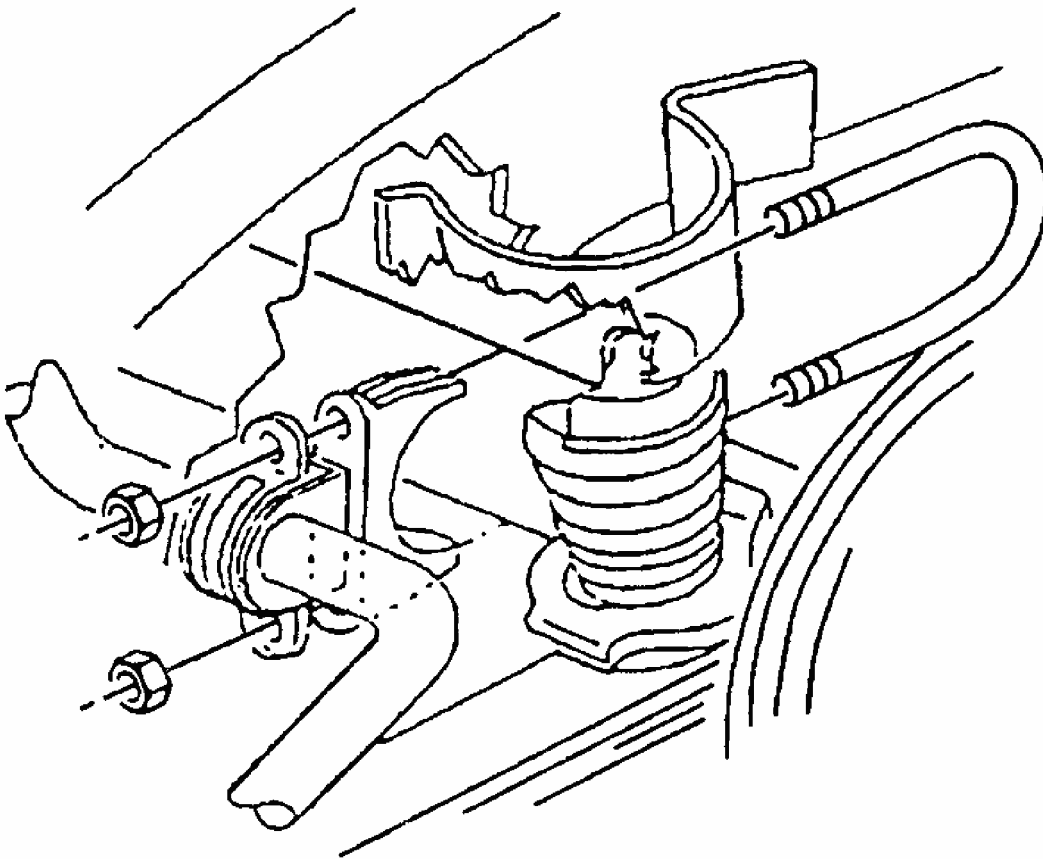
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Fig. 13: Removing Rear Stabilizer Link (4-Door)
Courtesy of GENERAL MOTORS CORP.



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Fig. 14: Removing Rear Stabilizer Bar (2WD)
Courtesy of GENERAL MOTORS CORP.

Installation

1. Install the stabilizer bar to rear axle. See **Fig. 14** .
2. Install the insulators, the clamps, and the U-bolts.
3. Install the nuts to the U-bolts, and tighten. See **TORQUE SPECIFICATIONS** .
4. Install the stabilizer bar to link mounting bolt.
5. Install the stabilizer bar to the link nut. See **Fig. 13** .
6. Tighten the upper link nut.
7. Lower the vehicle.

STABILIZER BAR (AWD)

Removal

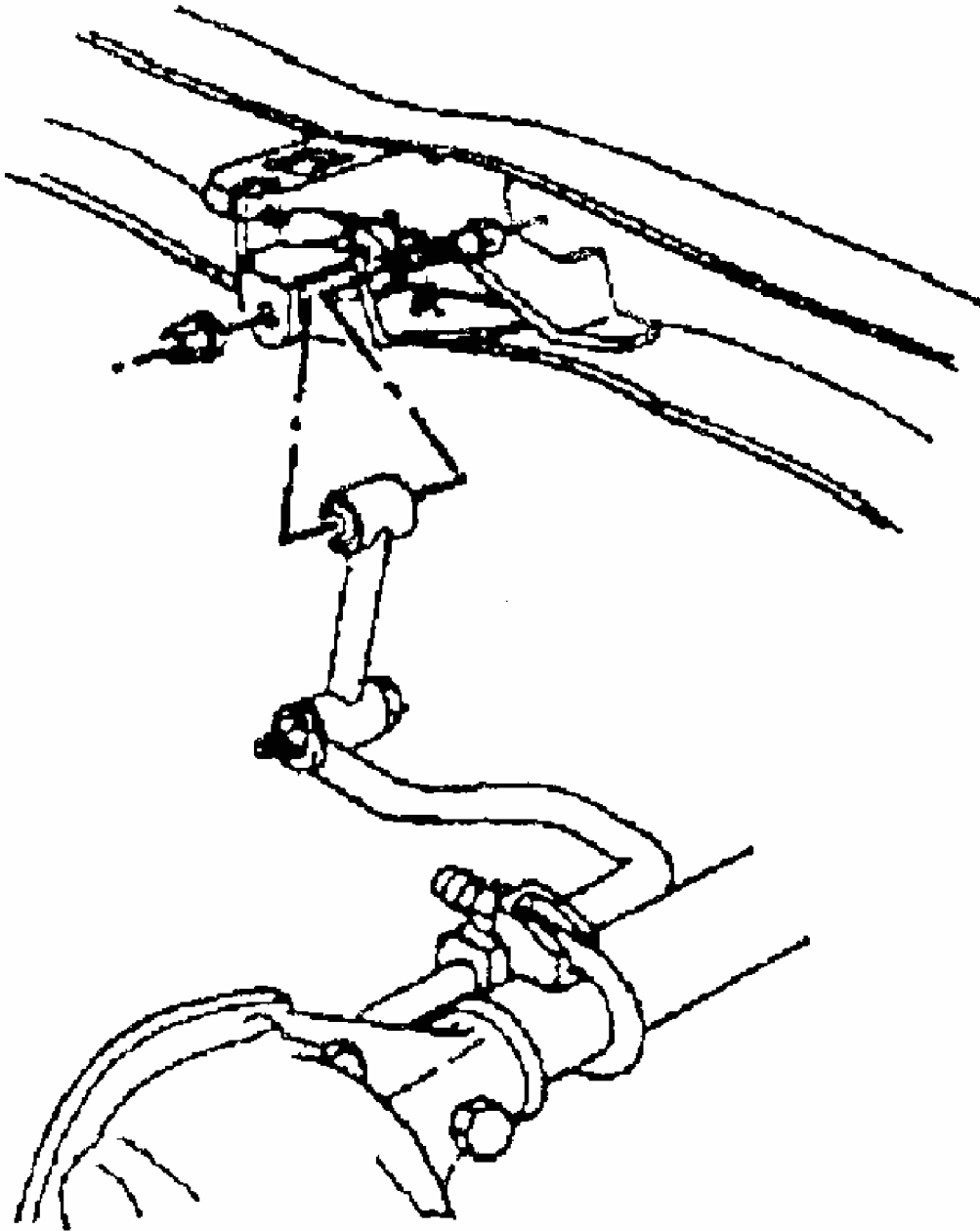
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1. Raise the vehicle on a hoist.
2. Remove the lower nuts, the washers, and the bolts from the stabilizer link. See **Fig. 15** .
3. Remove the nuts from the U-bolts. See **Fig. 16** .
4. Remove the U-bolts, the clamps, and the insulators.
5. Remove the stabilizer bar.

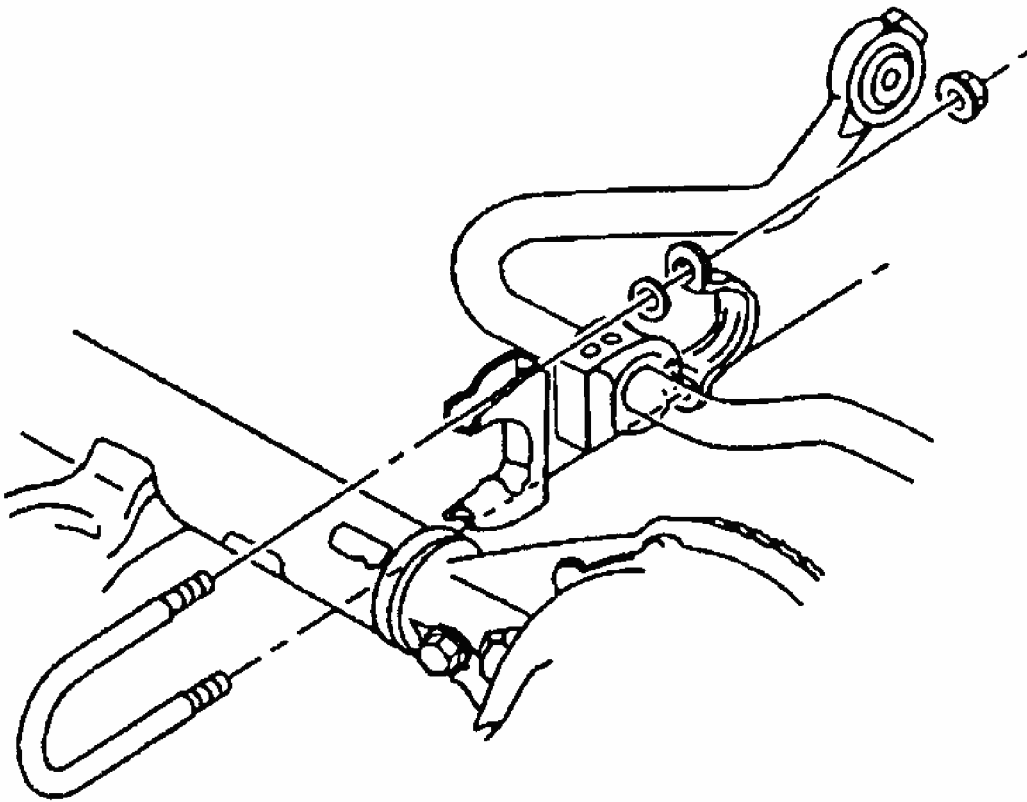
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Fig. 15: Removing Rear Stabilizer Link
Courtesy of GENERAL MOTORS CORP.



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Fig. 16: Installing Rear Stabilizer Bar U-Bolts
Courtesy of GENERAL MOTORS CORP.

Installation

1. Install the stabilizer bar to the rear axle.
2. Install the insulators, the clamps, and the U-bolts. See **Fig. 16** .
3. Install the nuts to the U-bolts; Then tighten the stabilizer clamp U-bolts. **TORQUE SPECIFICATIONS**
4. Install the stabilizer bar to the link mounting bolt. See **Fig. 15** .
5. Install the stabilizer bar to the link nut; Then tighten the upper link.
6. Lower the vehicle.

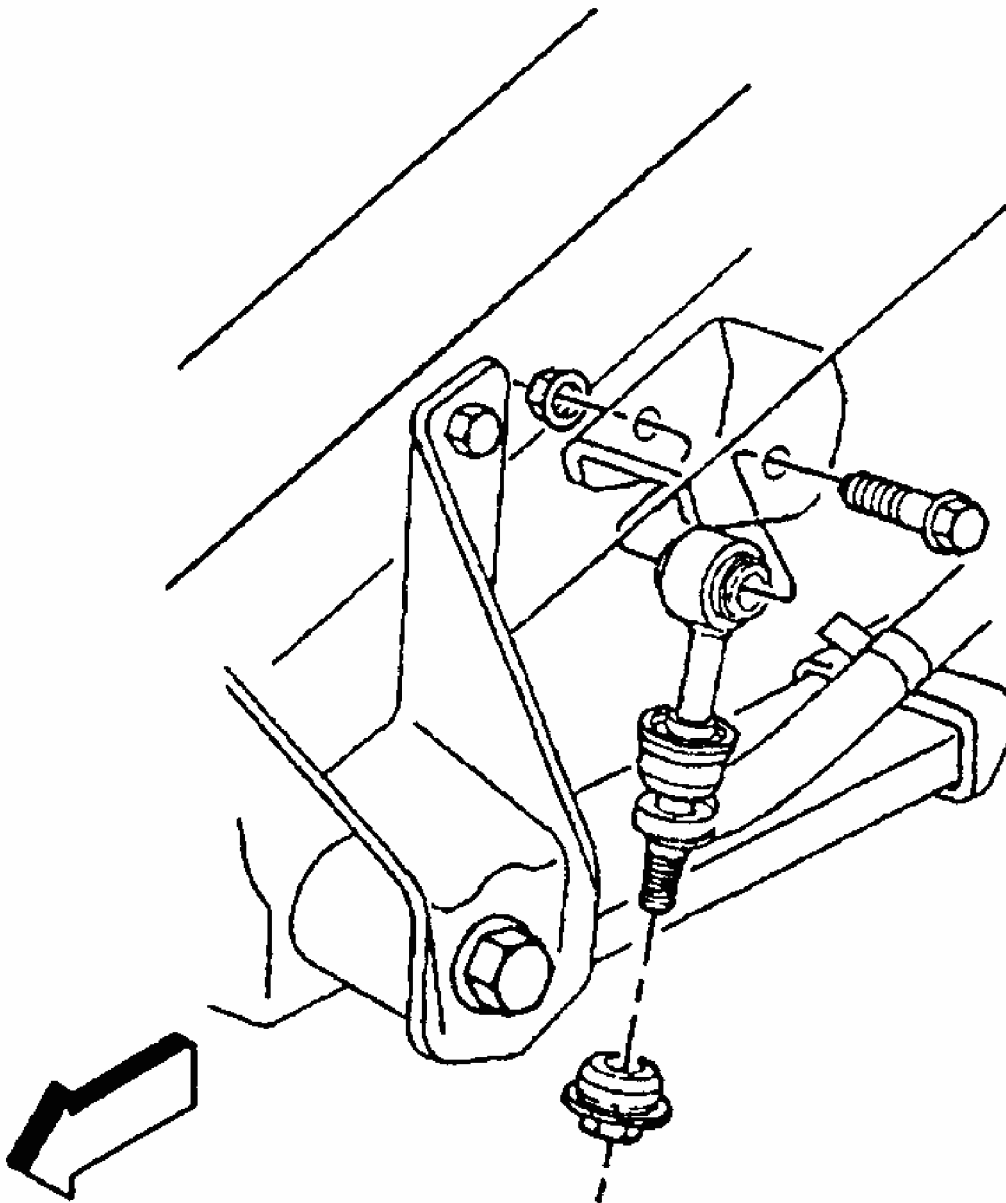
STABILIZER BAR (2-DOOR UTILITY)

Removal

1. Raise and support the vehicle.
2. Remove the lower nuts, the washers, and the bolts from the stabilizer links. See **Fig.**

17.

3. Remove the nuts from the U-bolts. See **Fig. 14** .
4. Remove the U-bolts, the clamps, and insulators. See **Fig. 14** .
5. Remove the stabilizer bar.



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Fig. 17: Removing Rear Stabilizer Link (2-DoorUtility)
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Installation

1. Install the stabilizer bar to the rear axle. See **Fig. 14** .
2. Install the insulators, the clamps, and U-bolts.
3. Install the nuts to the U-bolts; Then tighten the nuts. See **TORQUE SPECIFICATIONS** .
4. Install the stabilizer bar to the link mounting bolt. See **Fig. 17** .
5. Install the stabilizer bar to the link nut; Then tighten the upper link nut.
6. Lower the vehicle.

STABILIZER BAR (4-DOOR UTILITY)

Removal

1. Raise and support the vehicle.
2. Remove the stabilizer bar links lower retaining bolts and nuts. See **Fig. 13** .
3. Remove the stabilizer bar bracket mounting nuts from the U-bolts. See **Fig. 16** .
4. Remove the stabilizer bar brackets.
5. Remove the stabilizer bar.
6. Remove the stabilizer bar insulators.

Installation

1. Install the stabilizer bar insulators. See **Fig. 16** .
2. Install the stabilizer bar to the rear axle.
3. Install the stabilizer bar brackets.
4. Install the stabilizer bar bracket mounting nuts to the U-bolts; Then tighten the nut. See **TORQUE SPECIFICATIONS** .
5. Install the stabilizer bar to the link retaining bolt. See **Fig. 13** .
6. Install the stabilizer bar link retaining nut; Then tighten the nut.
7. Lower the vehicle.

STABILIZER BAR LINK (PICKUP & 4-DOOR UTILITY)

Removal

1. Raise and support the vehicle.
2. Remove the stabilizer bar link upper nut and bolt. See **Fig. 15** .
3. Remove the stabilizer bar link lower nut and bolt. See **Fig. 13** .
4. Remove the stabilizer bar link.

Installation

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1. Install the stabilizer bar. See **Fig. 13** .
2. Install the stabilizer bar link lower mounting bolt.
3. Install the stabilizer bar link upper mounting bolt. See **Fig. 15** .
4. Install the stabilizer bar link mounting nuts; Then tighten the stabilizer bar link lower and upper mounting nuts. See **TORQUE SPECIFICATIONS** .
5. Lower the vehicle.

STABILIZER BAR LINK (2-DOOR UTILITY)

Removal

1. Raise and support the vehicle.
2. Remove the stabilizer bar link upper mounting bolt and nut. See **Fig. 17** .
3. Remove the stabilizer bar link lower mounting nut.
4. Remove the stabilizer bar link.

Installation

1. Install the stabilizer bar link. See **Fig. 17** .
2. Install stabilizer bar link lower mounting nut.
3. Install stabilizer bar link upper mounting bolt and nut.
4. Tighten the stabilizer bar link lower and upper mounting nuts. See **TORQUE SPECIFICATIONS**
5. Lower the vehicle.

TIE ROD (ZR2 MODELS)

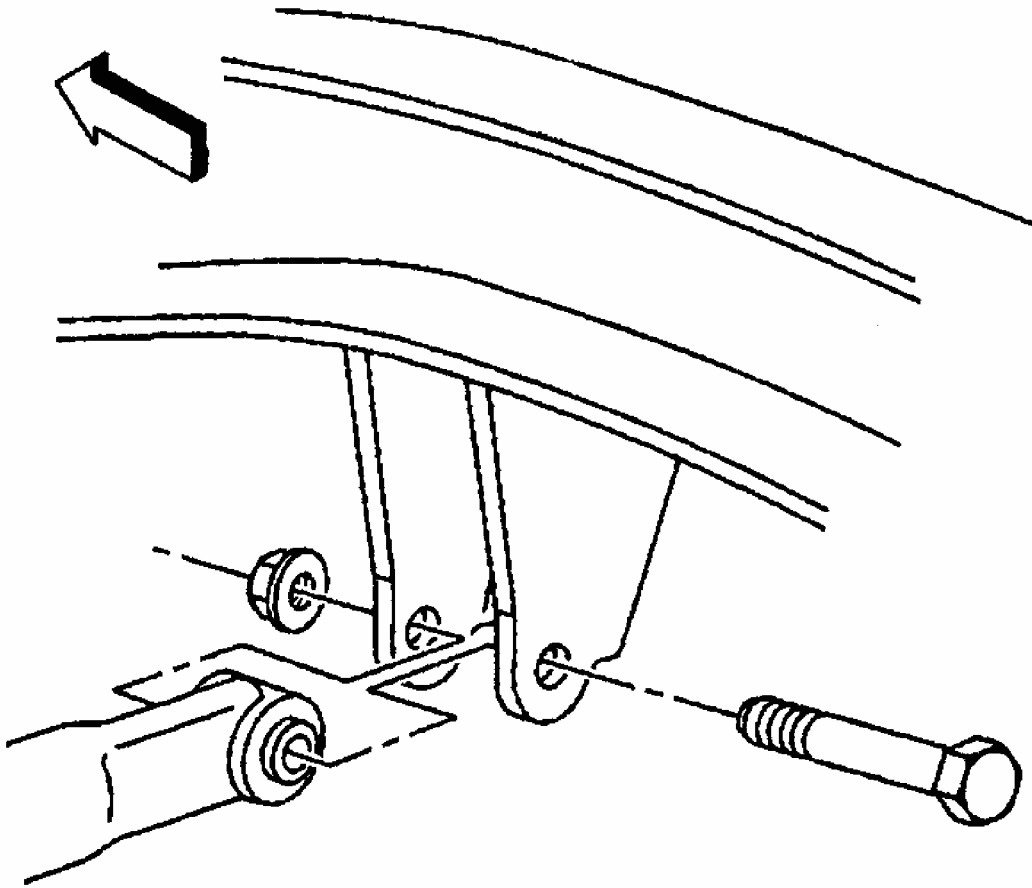
NOTE: **ZR2 is Regular Production Option (RPO) code for 4WD sport, high performance chassis package.**

Removal

1. Raise and support the vehicle.
2. Support the rear axle at a curb height position.
3. Remove the rear tie rod mounting bolt, the washers, and the rear tie rod mounting nut from the frame bracket. See **Fig. 18** .
4. Remove the rear tie rod mounting bolt, the washers, and the rear tie rod mounting nut from the axle bracket. See **Fig. 19** .
5. Remove the rear tie rod. See **Fig. 20** .

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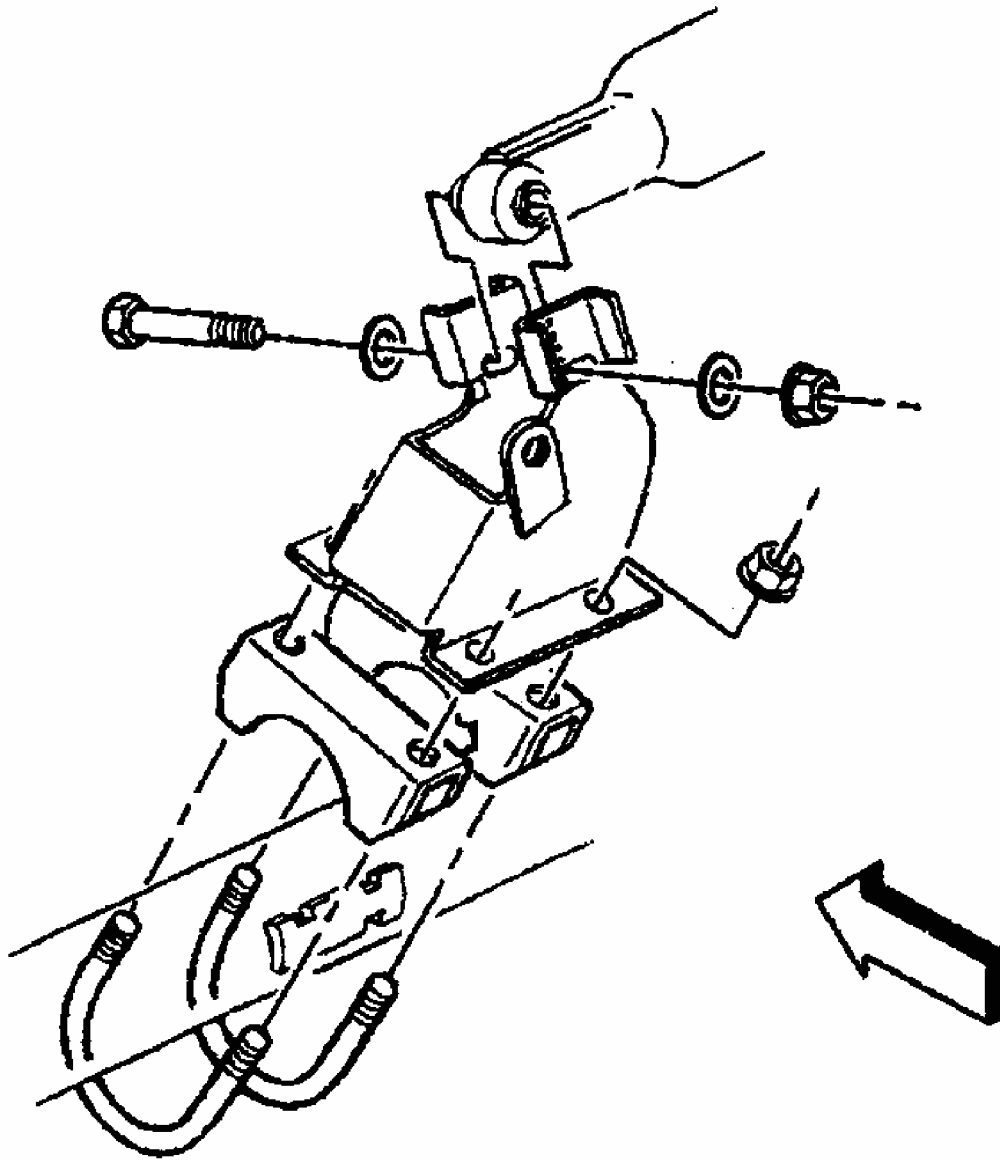


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Fig. 18: Removing Rear Tie Rod Mounting Nut & Bolt
Courtesy of GENERAL MOTORS CORP.

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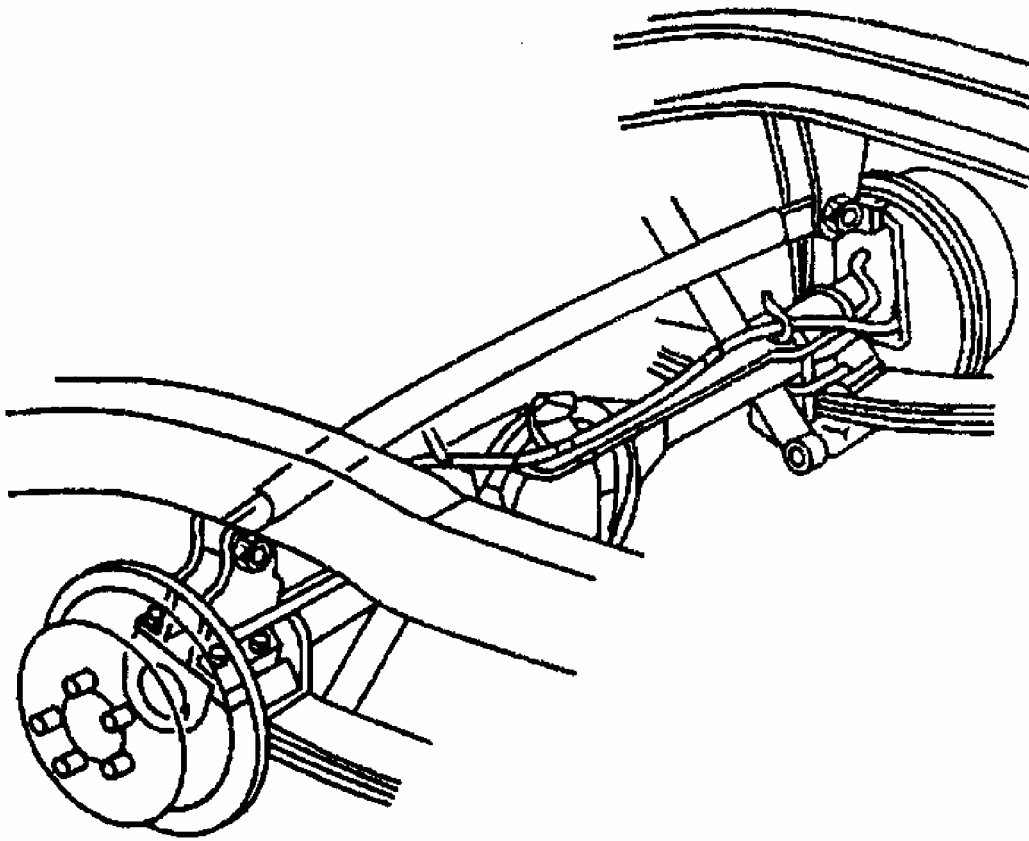


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Fig. 19: Removing Rear Axle Bracket & U-Bolts
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Fig. 20: Removing Rear Axle Tie Rod
Courtesy of GENERAL MOTORS CORP.

Installation

1. Position the rear tie rod in the frame bracket. See **Fig. 18** .
2. Loosely install the bolt, the washers, and the nut to the axle bracket. See **Fig. 20** .
3. Position the rear tie rod in the axle bracket. See **Fig. 19** .
4. Loosely install the bolt, the washers, and the nut to the frame bracket. See **TORQUE SPECIFICATIONS** .
5. Remove the rear axle support.
6. Lower the vehicle.

WHEEL STUD (REAR DRUM BRAKES)

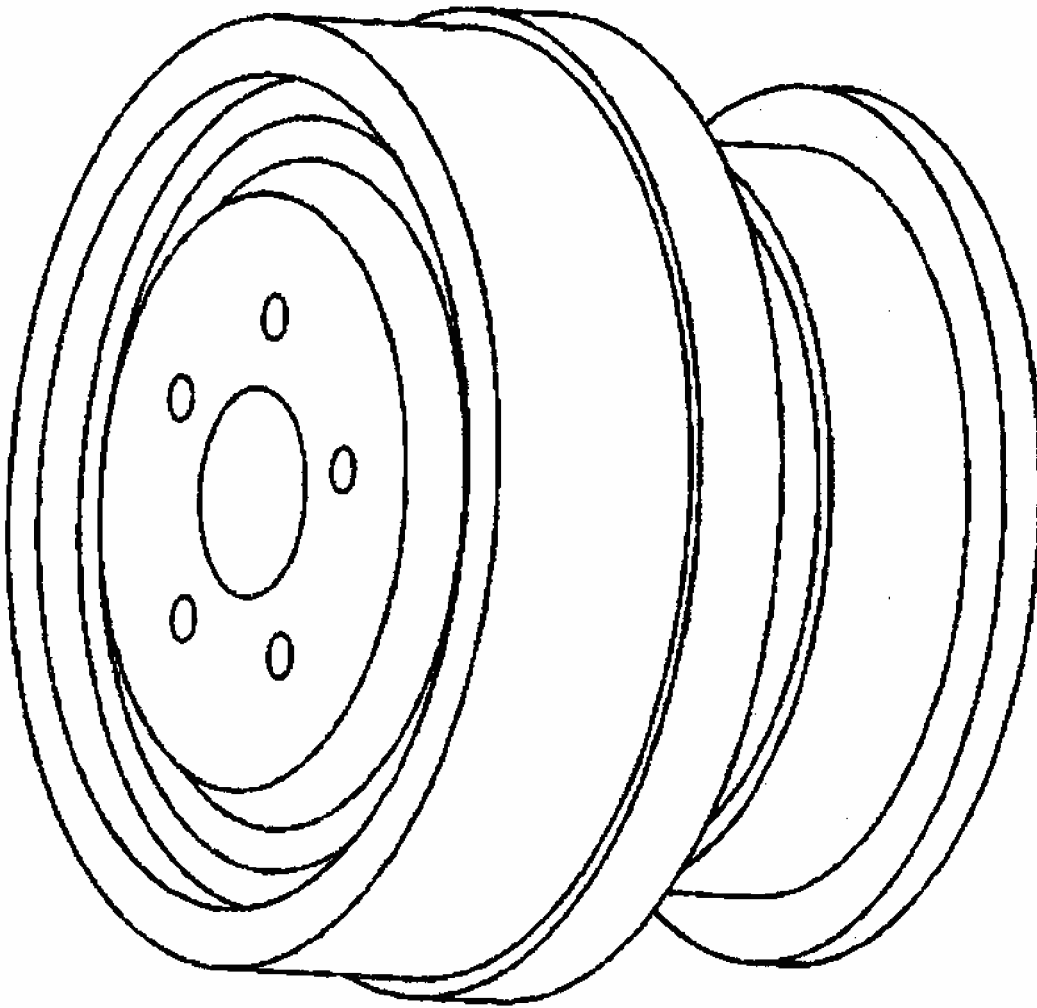
Removal

1. Raise the vehicle.

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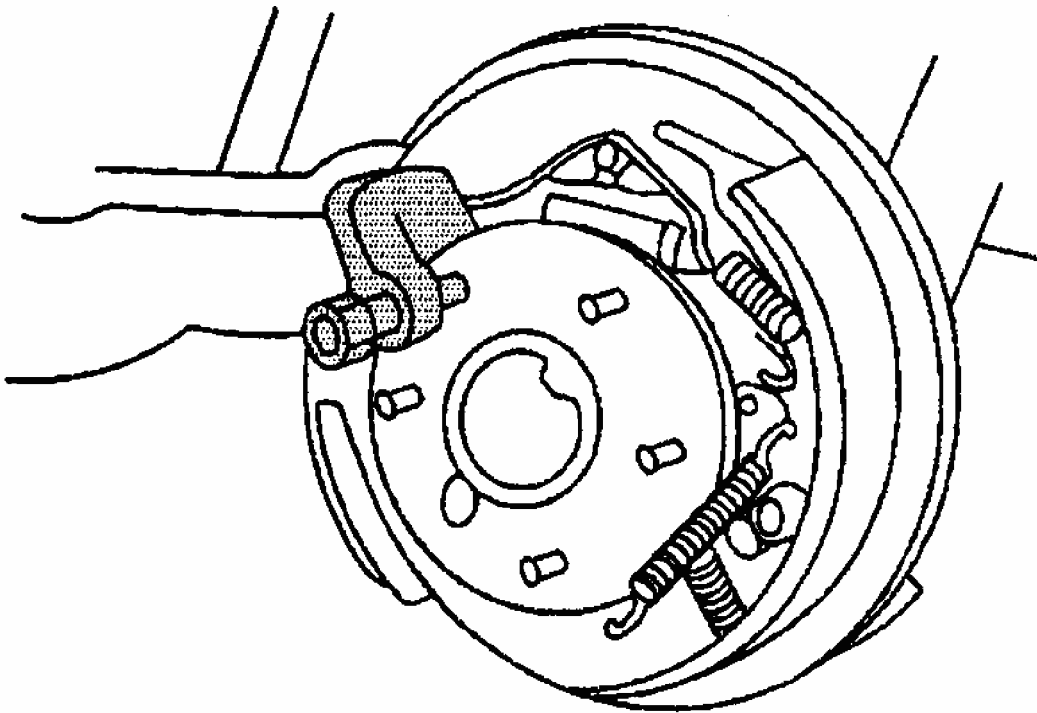
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2. Remove the tire and the wheel.
3. Remove the brake drum. See **Fig. 21** .
4. Remove the wheel stud from the axle flange using Ball Joint Removal (J 43631). See **Fig. 22** . See **SPECIAL TOOLS** .



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Fig. 21: Removing Rear Brake Drum
Courtesy of GENERAL MOTORS CORP.

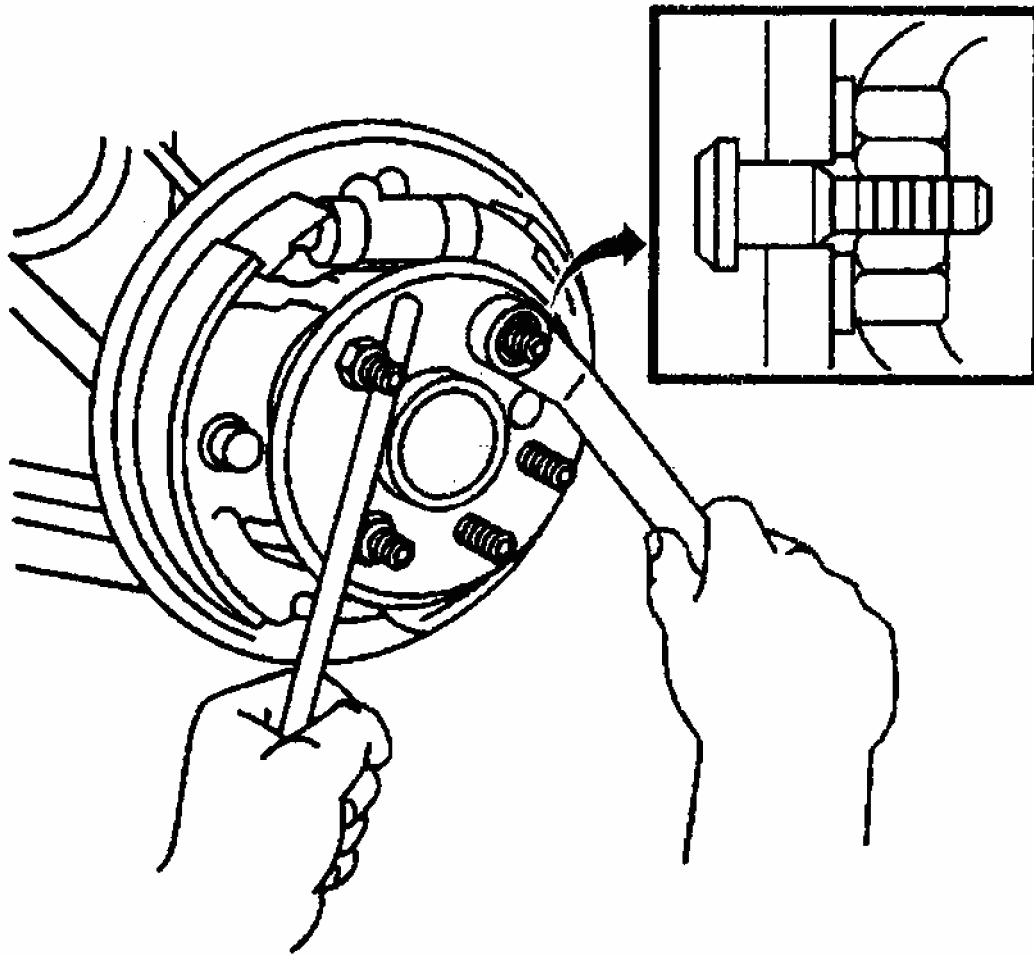


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Fig. 22: Removing Rear Wheel Stud (Drum Brakes)
Courtesy of GENERAL MOTORS CORP.

Installation

1. Start the new stud into the axle flange hole by pressing firmly with your hand.
2. Install a washer and thread the lug nut on the wheel stud with the flat side of the lug nut to the vehicle.
3. Tighten the lug nut in order to draw the wheel stud into the rear of the flange.
4. Remove the lug nut and washers from the wheel stud. See **Fig. 23** .



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Fig. 23: Installing Wheel Stud Into Rear Axle (Drum Brakes)
Courtesy of GENERAL MOTORS CORP.

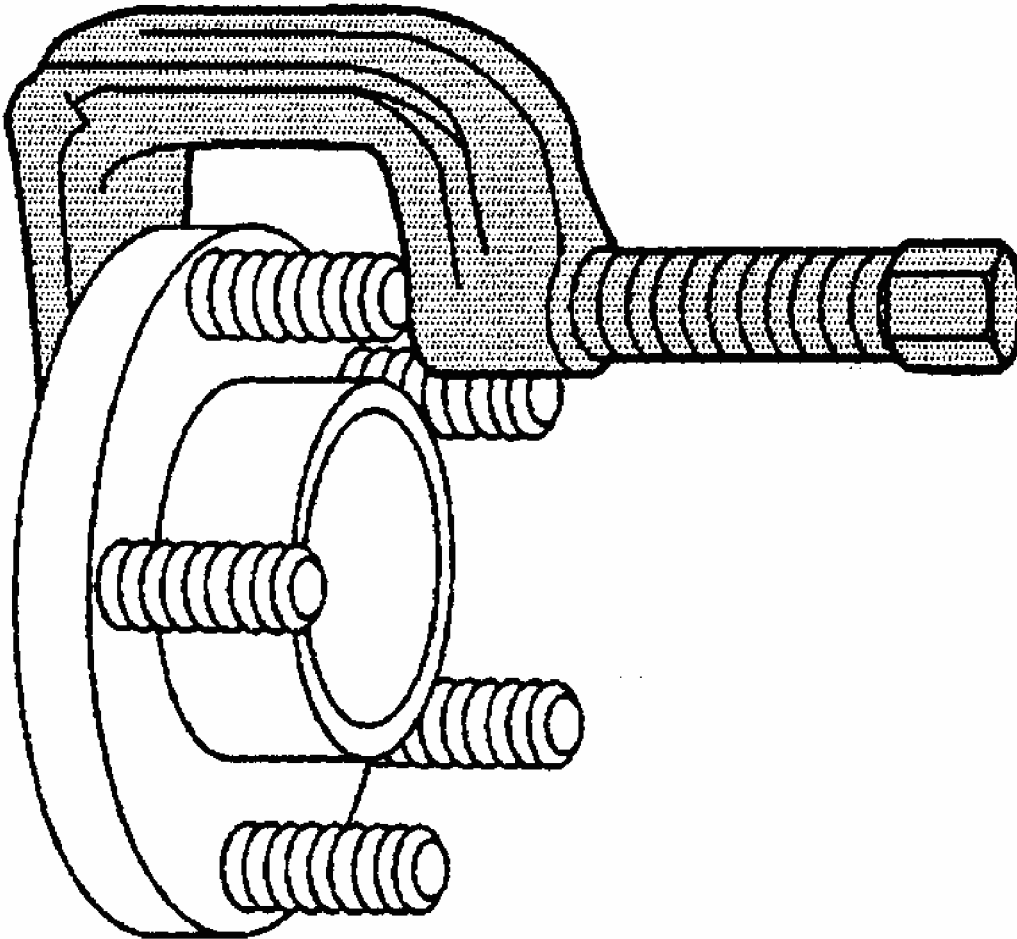
5. Install the brake drum. See **Fig. 21** .
6. Install the tire and wheel.
7. Lower the vehicle.

WHEEL STUD (REAR DISC BRAKES)

Removal

1. Raise and support the vehicle.
2. Remove the tire and wheel assembly.
3. Remove the rotor.

4. Remove the wheel stud from the axle flange using the Ball Joint Remover (J 43631). See **Fig. 24** . See **SPECIAL TOOLS** .



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Fig. 24: Removing Rear Wheel Stud With Ball Joint Remover (Disc Brakes)
Courtesy of GENERAL MOTORS CORP.

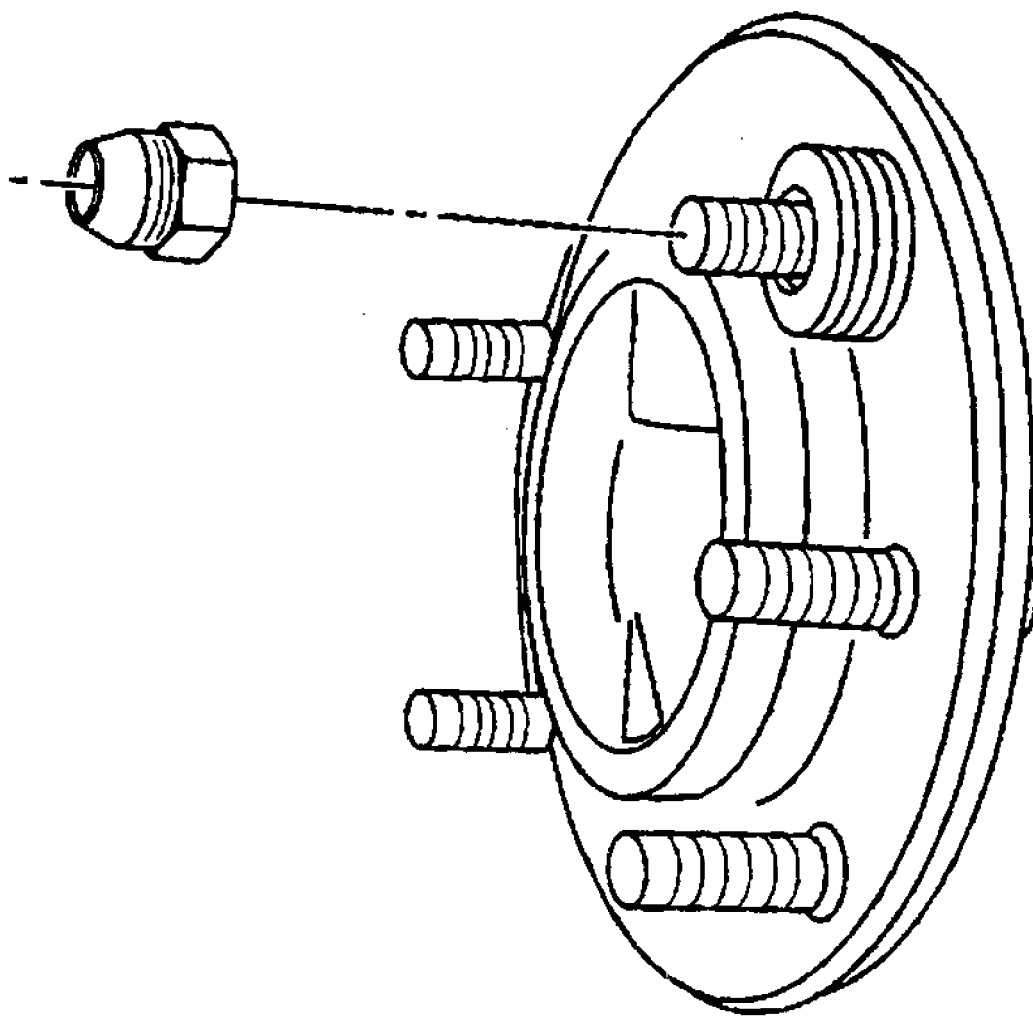
Installation

1. Install the stud into the axle flange.
2. Install the 4 washers and the lug nut to the stud. See **Fig. 25** .
3. Tighten the lug nut in order to draw the stud into the flange until the stud fully seats.
4. Remove the lug nut and the washers.
5. Install the rotor.
6. Install the tire and wheel assembly.

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7. Lower the vehicle.



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Fig. 25: Installing Rear Lug Nut Stud
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TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Leaf Spring to Front Bracket Nut	89 (122)
Leaf Spring U-Bolt Nuts	74 (100)
Rear Tie Rod Axle Bracket Nuts	39 (53)
Rear Tie Rod to Frame Bracket Nut	45 (61)

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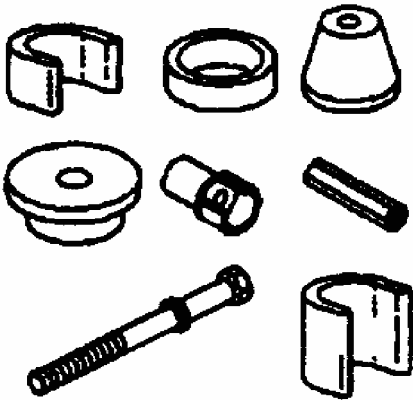
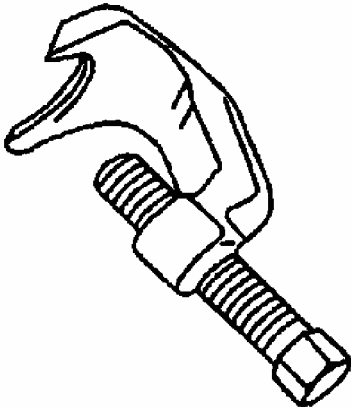
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Rear Tie Rod Bolt to Axle Bracket Nut	45 (61)
Shock Absorber Lower Nut (4 Door Utility)	74 (100)
Shock Absorber Lower Nut (Pickups and 2 Door Utility)	62 (84)
Shock Absorber Upper Bolts	18 (25)
Spring Shackle to Frame Nut	89 (122)
Spring Shackle to Leaf Spring Nut	89 (122)
Stabilizer Bar Lower Link Nut (4 Door Utility)	42 (57)
Stabilizer Bar Lower Link Nut (Pickups and 2 Door Utility)	50 (68)
Stabilizer Bar Upper Link Nut (4 Door Utility)	50 (68)
Stabilizer Bar Upper Link Nut (Pickup and 2 Door Utility)	25(35)
Stabilizer Clamp U-Bolt Nuts	44 (60)
Wheel Nut	100 (136)

SPECIAL TOOLS

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Illustration	Tool Number/Description
	J 21474-01 Control Arm Bushing Set
	J 43631 Ball Joint Remover

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Fig. 26: Identifying Special Tools
Courtesy of GENERAL MOTORS CORP.